

Appendix A

List of Abbreviations

ABC: avidin biotinylated enzyme complex

ANOVA: analysis of variance

BCA: bicinchoninic acid

BCS: bovine calf serum

bFGF: basic fibroblast growth factor

BMI: body mass index

BSA: bovine serum albumin

β-ME: beta mercaptoethanol

CPM: counts per minute

DAB: 3,3-Diaminobenzidine, liquid chromogen substrate kit

DMEM: dulbecco's modified eagle medium

DMSO: dimethylsulphoxide

DPBS: dulbecco's PBS

DTT: dithiothreitol, reducing agent

DMT: dermatopontin

EGF-R: EGF receptor

Eker rat: animal model for leiomyoma tumors

ELT-3: leiomyom smooth muscle cell line from Eker rat

ER/ESR: estrogen receptor

ERK: extracellular signal regulated kinase

FBS: fetal bovine serum

FGF: fibroblast growth factor

GAGs: glycosaminoglycans

GDP: guanosine diphosphate

GnRH: gonadotropin releasing hormone

HGF-R: hepatocyte growth factor receptor

HRP: horseradish peroxidase

IGF-I: insulin-like growth factor-I

JNK: c-jun N-terminal kinase

LSB: Laemmli sample buffer

LSMCS: leiomyoma smooth muscle cells

LOX 3: Lysyl oxidase 3

MAPK: mitogen-activated protein kinase

MAPK1/2: ERK1/2

MMP: matrix metalloproteinase

PBS: phosphate buffer saline

PCNA: proliferating cell nuclear antigen

PDGF: platelet-derived growth factor

PDGF-R: PDGF receptor

PGF2 α : prostaglandin F2 alpha

PI3K: phosphatidyl inositol 3 phosphate

PKC: protein kinase C

PR: progesterone receptor

PTEN: phosphatase and tensin homolog

qRT-PCR: real-time quantitative reverse transcription PCR

ROS: reactive oxygen species

RU-486: progesterone receptor antagonist

SEM: standard error of the mean

SRF: serum response factor

SMC: smooth muscle cells

TBST: tris buffer saline with Tween

TGF β 1: transforming growth factor beta 1

TGF β 3: transforming growth factor beta 3

TIMP: tissue inhibitor of metalloproteinase

TNF α : tumor necrosis factor alpha

VEGF: vascular endothelial growth factor

VSMCs: vascular SMCs